## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (currently amended) A hearing aid with comprising a microphone system (1) and a subsequent analog/digital converter (5), wherein the microphone system (1) is encapsulated in an electromagnetic shielding case (3) forming a shielded microphone system unit, and further wherein the analog/digital converter (5) is mounted on an outside outer surface of the electromagnetic shielding case (3).
- 2. (currently amended) The hearing aid as claimed in claim 1, wherein the
  analog/digital converter (5) is encapsulated in a converter shielding case (7a, 7b) and is
  mounted to said outer surface via said converter shielding case which is set to the electrical
  potential of the electromagnetic shielding case (3) of the microphone system.
- 1 3. (currently amended) The hearing aid as claimed in
- 2 claim 1, wherein the microphone system (1) and the analog/digital converter (5) are
- detachable combined in <u>a</u> modular manner.
  - 4. (canceled).
  - 5. (Currently amended) The hearing aid as claimed in claim 2, wherein the microphone system (1) and the analog/digital converter (5) are detachable combined in modular manner.
  - 6. (currently amended) The hearing aid as claimed in claim  $\underline{1}$  2, wherein said analog/digital converter comprises first and second analog inputs  $(E_1, E_2)$ , said first analog input  $(E_1)$  having a first input impedance  $(Z_1)$  and a first input gain  $(G_1)$ , said second analog input  $(E_2)$  having a second input impedance  $(Z_2)$  and a second input gain  $(G_2)$ , and wherein either at least one of said first and second input impedances  $(Z_1, Z_2)$  and of said first and second input gains are respectively different from one another or said first and second input gains  $(G_1, G_2)$  are different from one another.

7. (canceled).

1	8. (currently amended) A hearing aid comprising:
2	a microphone;
3	an electromagnetic shielding case for encapsulating said microphone; and
4 5	an analog/digital converter mounted on an outside outer surface of said electromagnetic shielding case and
5	electromagnetically shielded from said microphone.
1	9. (previously presented) A hearing aid comprising:
2	a microphone;
3	an electromagnetic shielding case for encapsulating said microphone; and
<b>4</b> 5	an analog/digital converter mounted in such a manner that it is electromagnetically shielded from said microphone.
L	10. (new) The hearing aid as claimed in claim 9, wherein said analog/digital
2	converter is fixed to a flexible sheet coated with a conducting path of the digital output of
3	said converter.
1	11. (Canceled).
l	12. (new) The hearing aid of claim 9, wherein an analog output of said microphone
2	system is led through said shielding case of said microphone system towards said flexible
3	sheet.
L	13. (new) A microphone system with a size for applying
2	in a hearing aid comprising:
3	a microphone system encapsulated in an electromagnetic shielding case; and
1	an analog/digital converter mounted on an outer surface of said electromagnetic
± -	
)	shielding case.
L	14. (new) The system of claim 13, wherein said analog/digital converter is mounted

on said outer surface via an electromagnetic shielding case of said analog/digital converter.

2

15. (new) The system of claim 13, wherein said analog/digital converter is fixed to a flexible sheet having a conducting path connected to the digital output of said converter, said sheet with said converter being encapsulated in an electromagnetic shielding case mounted to said outer surface.

1 2

3

4

1 16. (new) The system of claim 13, further comprising an electrical connection from 2 an output of said microphone through said shielding case of said microphone to said flexible 3 sheet. Appl. No. 09/502,258 Amdt. Correction Dated October 11, 2004 Reply to Office action of March 24, 2004 & Notice of Correction of Oct. 5, 2004

If there are any additional fees resulting from this communication, please charge same to our Deposit Account No. 16-0820, our Order No. 32396.

Respectfully submitted,

PEARNE & GORDON, LLP

By:

Robert F. Bodi, Reg. No. 48540

1801 East 9<sup>th</sup> Street Suite 1200 Cleveland, Ohio 44114-3108 (216) 579-1700

October 11, 2004